


MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 6414		BRIDGE SAFETY INSPECTION REPORT		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
CROCKER BLVD	42.5962 / -82.8767	504457600020B01	Serious Condition(3)	
Feature	Length / Width / Spans	Owner		
CLINTON RIVER	201.8 / 57.8 / 3	City: MOUNT CLEMENS(4576)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
E OF M3 NB	1960 / / / 2015	Macomb(18)	P Posted for load(427073)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
Metro(7) / Macomb(50)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	04/26/2018 / ITBM	3 SC - Unstable	

8. Drainage (04/18)
(04/16)
Deterioration of overlay at deck drains (04/14)

SUPERSTRUCTURE

	04/14	04/16	04/18	
9. Stringer (SIA-59)	3	3	3	<p>Beam delamination due to leaking joints, extensive below both curb lines, with up to 1" vertical displacement in north and south spans. Exposed and deteriorated stirrups on east fascia, south span. South span: spalls and 3 broken strands in beams 2E and 4W. Spalls in 2W, 3E, 7E and center beam, delamination in beam 4E. Middle span: longitudinal cracks in beams 2W and 5W, spalls and deteriorated strands in beams 3E, 5E, 3W and 4W, delamination in beams 5E and 3W, spalls in 9W and center beam. North Span: spalls and broken strands in beams 2E (3 strands), 3E (1 strand), 2W (4 strands), 3W (3 strands), and 4W (4 strands), delamination and minor spalling at beams 6E and north end of 9W and center beam. (04/18)</p> <p>Beam delamination due to leaking joints, extensive below both curb lines, with vertical displacement in north and south spans. Exposed and deteriorated stirrups on east fascia, south span. South span: spalls and 3 broken strands in beams 2E and 4W. Middle span: longitudinal cracks in beams 2W and 5W, spalls and deteriorated strands in beams 3E, 5E, 3W and 4W, delamination at center beams. North Span: spalls and broken strands in beams 2E (3 strands), 3E (1 strand), 2W (4 strands), 3W (3 strands), and 4W (4 strands), delamination and minor spalling at north end of center beams. (04/16)</p> <p>Beam deterioration due to leaking joints, especially below both curb lines. Exposed and deteriorated stirrups on east fascia, south span. South span: 3 strands broken in beams 2E and 3W. Middle span: longitudinal hairline crack in beam 2W, delamination of concrete in beam 2E, 3E, 4E, 2W and 3W and 2 center beams. North Span: Delamination, scaling and broken strands in beams 2E (3 broken strands), 3E (1 broken strand), 2W (4 broken strands), 3W (3 broken strands), and 4W (4 broken strands), delamination and minor spalling at north end of center beams. (04/14)</p>
10. Paint (SIA-59A)	N	N	N	(04/18) (04/16) (04/14)
11. Section Loss	N	N	N	(04/18) (04/16) (04/14)
12. Bearings	6	6	6	(04/18) (04/16) (04/14)

SUBSTRUCTURE

	04/14	04/16	04/18	
13. Abutments (SIA-60)	6	6	6	<p>Leaking cracks, minor delamination and staining due to leakage of deck abutment and beam joints. Spall at north abutment vertical joint at west end. (04/18)</p> <p>Leaking cracks, minor delamination and staining due to leakage of deck abutment and beam joints. Spall at north abutment vertical joint at west end. (04/16)</p> <p>Hairline cracks, minor delamination and staining due to leakage of deck abutment and beam joints. (04/14)</p>

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14. Piers (SIA-60)	6	6	6	Sealed vertical cracks and minor delamination, and minor cracks with efflorescence on each pier. Minor spalls at top of piers near beam bearings. Large spall on each face of south pier, and north face of north pier at west end. Cracking and spalling with exposed rebar at top of north pier cap at west end. (04/18) Sealed vertical cracks and minor delamination, and minor cracks with efflorescence on each pier. Minor spalls at top of piers near beam bearings. Large spall on north face of south pier at west end. Cracking and spalling with exposed rebar at top of north pier cap at west end. (04/16) Sealed vertical cracks and minor delamination, and minor cracks with efflorescence on each pier. Large spall on north face of south pier at west end. Cracking and spalling at top of north pier at west end. (04/14)
15. Slope Protection	7	7	7	Woody debris at south embankment (04/18) (04/16) (04/14)
16. Channel (SIA-61)	7	7	7	Heavy woody debris at west end of north pier (04/18) Minor debris along embankments (04/16) Some debris between abutments and piers. Woody debris accumulated at west end of north pier. (04/14)
17. Scour Inspection	7	7	7	No scour conditions observed (04/18) No scour conditions observed by probing from boat (04/16) (04/14)

APPROACH

	04/14	04/16	04/18	
18. Approach Pavement	5	8	8	Minor depression near curb line in NW quadrant. (04/18) Recently resurfaced. Minor depression near curb line in NW quadrant. (04/16) Significant amount of longitudinal and transverse cracks, several HMA patches and spalls, and map cracking. Settlement near curb line in NW quadrant (04/14)
19. Approach Shoulders Sidewalks	5	8	8	Recently replaced each quadrant (04/18) Recently replaced each quadrant (04/16) Cracks and failing bituminous patches and spalls in several areas. Settlement in each quadrant, some significant with bituminous patching. Missing curb section in NE quadrant. Recent utility work in SW quadrant. (04/14)
20. Approach Slopes				Minor erosion along wing wall in NW quadrant (04/18) (04/16) (04/14)
21. Utilities				Utility line on west fascia, opening in conduit at abutment in NW quadrant (04/18) (04/16) (04/14)
22. Drainage Culverts				(04/18) (04/16) (04/14)

MISCELLANEOUS

Guard Rail		Other Items	
<u>Item</u>	<u>Rating</u>	<u>Item</u>	<u>Rating</u>
36A. Bridge Railings	1	71. Water Adequacy	9
36B. Transitions	0	72. Approach Alignment	8
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	High Load Hit (M)	No
		Special Insp. Equipment	1
		Underwater Insp. Method	2

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False Decking (Timber) Removed to Complete Inspection N/A - No False Decking

Critical Feature Inspections (SIA-92)

	<u>Freq</u>	<u>Date</u>
92A. Fracture Critical		
92B. Underwater	60	08/13/2018
92C. Other Special		
92D. Fatigue Sensitive		